

**Applicant Name** Power Teton County Water and Sewer District  
**Project Name** Power Teton Water System Improvements

### **Project Abstract**

The Community of Power is an unincorporated town in eastern Teton County, approximately 25 miles northwest of Great Falls. The district provides water service to 65 households and 14 commercial or institutional users including the school, post office, and the senior citizens center.

The community's original water treatment facility was outdated and did not provide treated water to meet the U.S. Environmental Protection Agency (EPA) regulatory requirements. A pilot study and a Preliminary Engineering Report (PER), including an alternatives analysis, led to an overall project consisting of three phases. Phase 1 included construction of a new conventional package treatment plant, clearwell storage tank, backwash basin, and appurtenances. Phase 2 included construction of a new presedimentation basin, an on-grade storage tank, and partial replacement of the distribution mains.

The district's remaining water mains, constructed in 1969, are at the end of their service life and do not provide adequate fire flows. Several dead ends remain in the system and prevent adequate flushing or cleaning, leading to the possibility of contamination of biofilms. The transmission main from the treatment plant is of unknown condition. Metal screws have been used to plug leaks in the main. It is suspected that this main is currently leaking, so the new treatment plant must process extra water.

The proposed Phase 3 addresses the above deficiencies along with those not mentioned here. The project provides resource conservation, development, management, and preservation.

The community has been extremely active in its support of this project. Each user is now paying an additional \$61 in their monthly bill to repay loans incurred from Phases 1 and 2. The estimated cost to complete the project is \$805,714.